FORM 5	MDEQ	MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY APPLICATION FOR AIR POLLUTION CONTROL PERMIT

Oxidation Systems — Section L4

1. Oxidation Equipment Description

A. Emission Point Designation (Ref. No.): _____

B. Equipment Description (include the process(es) that oxidation system controls emissions from):

C. Manufacturer: _____ D. Model: _____

E. Status: ☐ Operating ☐ Proposed ☐ Under Construction

2. Oxidation System Data

A. Type of Oxidation Process:

☐ Afterburner
☐ Recuperative Thermal Oxidizer
☐ Regenerative Thermal Oxidizer
☐ Other: _____
☐ Flare
☐ Recuperative Catalytic Oxidizer
☐ Regenerative Catalytic Oxidizer

B. Efficiency: _____ % Controlling the following pollutant(s): _____
Efficiency: _____ % Controlling the following pollutant(s): _____

C. Inlet air flow rate: _____ acfm

D. Combustion chamber temperature: Minimum: _____ ^{o}F Maximum: _____ ^{o}F

E. Maximum burner rating: _____ MMBtu/hr F. Fuel type: _____

G. Fuel usage rate (specify units): _____ H. Sulfur in Fuel: _____ wt %

I. Residence time: _____ seconds J. Percent excess air: _____ %

K. Combustion chamber volume: _____ ft^3

L. VOC Concentration: Inlet: _____ ppmv Outlet: _____ ppmv

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Oxidation Systems — Section L4

2. Oxidation System Data (continued)

M. Catalyst Data (if applicable):

1. Catalyst type: _____

2. Catalyst volume: _____ ft^3

3. How is spent catalyst disposed of? _____

N. Flare Data (if applicable):

1. Flare type: ☐ Non-assisted ☐ Steam-assisted ☐ Air-assisted ☐ Other: _____

2. Net heating value of combusted gas: _____ Btu/scf

3. Design exit velocity: _____ ft/sec

4. Is the presence of a flare pilot flame monitored? ☐ Yes ☐ No

   If yes, please describe the monitoring: